

ABSTRACT OF THE INVENTION

5 METHOD OF SEALING TWO SUBSTRATES WITH A
NON-EPOXY OR EPOXY-ACRYLATE SEALANT USING LASER RADIATION

10 A method of joining two panels during the manufacturing of a LCD display
employing the ODF (One Drop Fill) assembly technique. Using this method, the
liquid crystal is deposited on one of the substrate's interior to the glue seal. The glue
seal is pre-deposited near the peripheral edge of the substrates. The two substrates
are then brought in contact with one another. The glue seal must be cured rapidly in
order to seal the entire periphery while avoiding contamination between the glue
seal, in the liquid state and the liquid crystal. The present invention teaches the use
of a non-epoxy glue sealant, which is cured using photoinitiators. Experimental
15 research has discovered the use of photons that are derived from laser beams and
the control thereof. This allows for a faster, lower temperature cure.

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